

Rheumatism

An Inaugural Essay
For the degree of
Doctor of Medicine
Submitted to the
Examination of the
Provost

The Trustees and
Medical Professors of the
University of Pennsylvania
On the Nineteenth day of April
1810



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In the prosecution of this essay I propose to treat
of the different forms of Rheumatism, taught in our
School under the names of Rheumatisms, Rheumaticulae,
and Rheumatalgia.

Rheumatism is a disease generally affecting
the large joints, particularly those that are most
acted on in the different movements of the body.
It also affects the muscles of the extremities and is occa-
-sionally found to affect other parts more or less con-
-nected with such as are primarily affected. It occurs
at all seasons of the year, but most frequently in
Autumn and Winter; and is more a disease of
cold and variable, than of warm climates.

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after a Winter that has been uniformly cold, it often prevails in the spring, and violent inflammatory cases are sometimes met with in the summer. It affects persons chiefly in the meridian of life, or at any period between the age of puberty and the fortieth year. Sailors, Soldiers, fishermen and others who are much exposed to violent and irregular exercise, and to great vicissitudes of temperature are most subject to its attacks.

The Causes which concur in the production of Rheumatism, may be divided into the remote, the predisposing, the exciting, and the proximate. The most common remote causes of the disease are violent exercise and irregular labour which dispose to it, by inducing debility in the joints and muscles which are

are its ordinary seats. But every thing tending to produce debility in other parts of the body that are allowed to be either primarily or secondarily susceptible of it, may be regarded as a remote cause of the complaint.

The predisposing cause of Rheumatism is debility, either directly or indirectly induced in those parts which it is generally observed to attack.

The exciting causes of the disease are the same as those which excite other inflammatory affections; such as intemperance in eating and drinking, sudden changes of the weather, cold either generally or partially applied to the body, damp air, the continued application of cold water, wet clothes, lying in damp sheets.

and in the cold weather. But you do not
feel cold and it is very dry in cold weather.
Therefore you must be careful about it. In
winter it is very dry and it is very cold.

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shuts, sitting or lying on moist ground, travelling in the night or being much exposed to the night air: the short cold and moisture applied in any way so as suddenly to check perspiration or to produce an undue determination to the joints, or other debilitated parts. Under this head may also be enumerated repelled eruptions, exsiccative discharges of any kind, and the sudden stopping of customary or natural evacuations; they all act by exciting morbid, deranged or unnatural actions in the system, which have a necessary tendency to fix themselves upon parts predisposed to disease. Phrenation is also sometimes the effect of Scurvy, Lues, Venereal, and protracted intermitting or remitting fevers.

If the sole cause of inflammation is that marked, unnatural or injurious action on the vessels of the parts affected, whether it be in the various processes or symptoms of the disease which come next to be considered.

The symptoms usually characterizing a process of acute inflammation are heat redness & swelling of the part affected with a sense of throbbing restlessness, and the ordinary signs of inflammation are there in other parts of the system such as a full, tense, frequent & bounding pulse, thirst, heat with perhaps even a sense of extreme anxiety. This is not usually accompanied with a full & with disorders of that are well interlacing with each other.

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is often very violent and continues in some cases for
several hours. It is then succeeded by a fit which
abates after some time, and during its abatement the
patient will often be visited by a gentle perspiration.
This is sometimes high coloured, depositing a copious
sediment after a few days; at the time it is perfectly
clear without any sediment whatever. These menses left
the woman extremely attenuated, considerably excreting even
the slightest motion, managing at certain stages of
the disease a great difficulty to transmute stuff from
joint to joint especially during the night. Towards
evening a gentle - copious perspiration - breakout
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and a partial allusion of pain; and the patient in some instances during the day finds himself tolerably well while far from motion. But generally towards night the paroxysm returns bearing back all the symptoms with their usual severity, and the patient suffers an aguish mind. This however is not by any means uniformly the case for the pain in some instances is usually acute in the day, & suffers little or no perceptible diminution.

After these symptoms have continued for some time, a certain state of the patient's health becomes obvious & considerable. The pain after this is not so violent, but consists in the slightest infirmities.

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diarrhoea does not always carry off the poison or save
the patient against a severe attack. The swelling
which takes place is inflammatory Rheumatism
is probably the consequence of an effusion of lymph
or serum from the blood-vessels.

Rheumatism derives from Cicat in being more violent
yet, that is a true & bold to affect the smallest
the bone or muscle in being attended with much ac-
tive action, it is in being largely confined when it
attacks the extremities to the large joints. They
offer a mouthful fit to be nothing but dry, not joints
considerations of the same disease cause by their
seals to their causes due to the various circumstan-
ces of predisposition which concur to give rise to them.

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Doctor Sodenham describes a Scrofulous Rheumatism
which he says occurs after the small pox or
small pox in which the pains are more acute
than also the symptoms not uniform. Females only
affectionate constitutions are said to be most liable to the
pains of the disease. But Doctor Hart in a note to
the author of Sodenham observes that many
men are liable to similar Complaints.

Rheumatism in its common form is sudden
and violent. The inflammation & swelling accompanying
it differs from almost all others, generally terminating
in suppuration rarely in suppuration and never in
abscess. When death occurs it is either an conse-
quence of Suppuration - sometimes the mortified
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local affection producing hectic fever or a constipation
of the disease to some vital parts. When it occurs in
old people it is seldom cured.

In the cure of acute Rheumatism
we are to begin with by the principal indications, the
first of which is to reduce the pain and inflammatory
swellings which may be present. This we do to alleviate
pain and by proper local applications to reduce the
inflammation and swelling of the part - parts of
fever.

To answer the first indication, our first
remedy is bloodletting. Blood should be drawn in
large quantities also the bleeding repeated more or
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fatuish and hardness of the pulse. Large and repeated bleedings during the first days of this disease, are highly unwise, & for the following reasons, first because they tend to shelter the poison of the disease. 2d. They lessen the severity of the pain which attends it. 3d. They prevent the system from evading itself away by fainting efforts, & thereby prevent a predisposition to a second attack. 4th. They prevent those morbid effusions which by the inviolateness of cartilage & other concrements between the joints, are thereby prevent lame-
ness and deformity. 5th and lastly. They supersede in a great measure the exhibition of active purges the operation of which is extremely inconvenient and destroy-
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The next remedy to be mentioned under this head is purging. The purges most proper in Rheumatism are those that act slowly and gently on the bowels, such as Sulphur, Cream of Tartar, Castor oil, the neutral salts &c. They give relief in two ways viz by removing constipation, and by discharging bile and other accumulated substances from the intestines, which are often the cause of aggravating the symptoms of the disease.

Antimonials are recommended but do not promise to be of much service except when given in small and nauseating doses to excite perspiration.

Another remedy of great importance in the treatment of Rheumatism, is sweating. Medicines given to excite sweating in this disease should

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should be of the heat heating or stimulant kind,
such as Nitre, Tartar Emplie, Ipecacuanha, and the like.
Dover's powder is an excellent medicine in Rheumatism,
and when judiciously administered does great service.
If aided by draughts of warm debilitating drinks
it excites a copious discharge from the skin at the
same time that it relieves the pain and induces sleep.
After the lancet has been used liberally Digitalis may
be given with advantage. The following formula*
has been advised. Take of Vincaria of digitalis from
80 to 100 drops of crude nitre one drachm and of pure
water eight ounces in this to be taken in 24 hours.
The patient throughout the whole of his disease ^{should}
keep cool and quiet if possible, and avoid all
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To fulfil the second indication a variety of remedies have been recommended. I shall only mention a few of them

Topical bloodletting is often found serviceable when the local inflammation is great, and immediate relief desired. With this view blisters may be applied all over the inflamed part. Cupping and scarification are less eligible, being more painful and more irritating remedies.

After sufficient bleeding has been performed, and the pain has become fixed to a particular joint, blisters are highly useful, but afford little or no advantage before. No man pain Doctor Richardson

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a view to mitigate pain, ought never to be given in
the inflammatory stage of Rheumatism, unless it be
combined with some medicine calculated to induce
sweating or a determination to the skin.

Cold and cool air, as in other inflammatory
diseases are proper. The part affected should be kept
cool, the dressings should be thin, and the bed clothes
light or bauly sufficient to render the patient com-
fortable. I have seen cold water applied in one instance,
with great advantage in acute Rheumatism. It reduces
the inflammation and allays pain, and may be
applied either by ablution or fomentation. In a case
the cure of acute Rheumatism depended, upon a
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upon antiphlogistic plan of treatment. A low diet
should be strictly observed, and a total abstinence
from animal food, and from all spirituous liquors.

To remove the patient against future at-
tacks, he should be directed to avoid all the remote or
existing causes of the disease, less frequently
and prevent outbreaks by the occasional use of gentle
aperient medicines. The wearing of flannel next to the
skin should be recommended; also moderate and up-
ward exercise, the cold bath, and baths, change
of climate. - - - - -

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on Thrombocytosis, what is more commonly
called chronic Thrombosis.

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In this which for the most part succeeds
acute Rheumatism, the patient can sit up and,
if you take pain & difficulty, walk about. The
pulse is regular, or quick, frequent moderately low
but strong, the disease is not attended with chills,
but a constant fever, & the swelling disappears alto-
gether & is scarcely observable. The pains still continue
though not with their usual violence, but causing
and stiffening the tendons of the joints more subject
to pain at night. They are often increased by motion
and the change of the weather: Some patients etc.
have a forewarning of a change about to take place
before it actually happens.

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same or there previous acute Rheumatism.

The remedies for this form of Rheumatism are but few and small in number; without the power making but little impression upon the disease. It is desirable however men a life especially according to the constitution and state of the system, the power in every instance being very small. In rheumatism then should be used as the medical walls Sulphur, Tartaric acid, or a glistering &c. &c. Blisters they are not applicable here, but in the affected part, is inadmissible with. Dr. West² has told me from that doctor's words the joints are much more effeminate & delicate than in others. The cause of it is the blisters blisters &c. & the two tables of lubrication & cement deposit.

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This acts by translating malod excretions from the parts to the salivary glands. Without the use of Salivation we should be much more frequently liable to the cure of Chronic Rheumatism, than we are under a skillful application of this valuable remedy.

After sufficient digestion, Stimulants are given either internal or external, may be used to with advantage and safety. The particular tonics, as well as the quality and force of stimulants according to the state of the disease, will depend on the constitution of the patient, his former habits and his condition at the time they are to be administered.

This form of Rheumatism may also be avoided by avoiding exposure to cold, by -
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occasionally taking a cathartick of sulphur, or some
other mild purge; by wearing flannel next to the
skin, the cold bath, a change of climate &c.

I will now leave the first division of this
topic which is to off a few remarks on Rheumatism.

This comes from an imperfect cure of Rheumatism,
or rather a protracted Rheumatism which is usually
attended with a lameness - or at least irritability.

The pains of Rheumatism are the same as
those produced by any chronic Rheumatism.
It is generally attended with lameness but seldom
with a fever. It continues not only for months and
years but frequently during life. The pains are
sometimes acute or violent in it but occasionally

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return at uncertain and irregular periods. In some instances after continuing a great while they have
been unable to bear the patient entirely and were
seen to be thought to be more frequently active and
violent at other intervals the patient recovering to
the last moment of his existence. I have been my
order that these are probably a form of delusion
- sometimes called splitting the case of this
kind, probably a consequence of an illness.

In regard to the few other
- whom I usually decide there either who bear
- signs internal and external. I shall briefly
mention most of them as having the most distin-
- guished for their efficacy, & which are most
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magnesia and sarsaparilla Function of pitch leaves deco-
ction of Fructa Mustard in paper. The function of
the spiritual oil of camphor, oil of lumber Camphor,
or opium and camphor combined.

The Winter Sparrow Picklyash a toothache
I am a native a specimen collector of this article
has of late been highly extolled - this young
Inflammation, but I am not able to say very thing
in its favor from my own observation.

Among the external remedies to be employed
on the treatment of the Rheumatologia the first to
be used must be

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to mentioned is the warm bath; this has the effect of awakening the dormant excitability of the system, & thereby preparing it for the successful use of the remedies. When a bath of warm water fails the vapour bath should be tried.

After the system has been raised from a state of cold, the cold bath may succeed the warm; or they may be used alternately. The efficacy of the warm bath will be increased by diffusions in the water a quantity of table salt.

Friction by the hand or a flesh brush if gentle and long continued are of great advantage. Stimulating counter preparations applied by means of friction have often done good.

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A very good one is made of Opium and carbonate of Ammonia with one drachm, Camphor ten scruples, olive oil in proportion; rub them together, and apply a portion of the ointment twice a day. The volatile liniment consists of Camphor paper the spirits of turpentine, and application of mustard and Burnardick hair all in the hairs done coarse, in this state of the complaint.

Electricity has often succeeded when other remedies have failed. The patient should always be directed to have at hand a baton of ironing it, to put or foment, to use vapors and daily to change them. Visiting certain Medicinal springs will often produce cures in cases of the most obstinate kind and of long duration, when all other remedies prove abortive -

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I shall conclude this essay by observing that success in the management of the different states of Rheumatism, as well as in the management of all other diseases, consists in an eminent degree in timing remedies. There is a time to bleed and a time to withhold the lancet; a time to purge and a time to abstain; a time to sweat and a time to give anodynes, a time to stimulate and a time when stimulants would be improper and pernicious. In a word the course of the disease must depend upon proper remedies in their proper times and places.

In retiring from this university in which I have enjoyed so many important advantages, it is a duty I owe to gratitude as well as to individual

quem nullus pugnat sed enim dicit
nullus pugnat nisi nullus sit pugnans. Et
non est pugnans nisi homo sit in animo
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individual merit, to offer to the Medical Professors my
unfeigned thanks. Of the instruction I have derived from
their truly valuable lectures, I shall retain an unde-
rable remembrance! That each of you Gentlemen, may
long enjoy in health and vigour that life which has
been so publicly useful; that the sciences you teach
may continue to flourish under your fostering
hands, and that your labours may ultimately be
crowned with that honor and happiness you all so
eminently deserve, is the fervent and sincere wish
of your friend and devoted

R. Muldrow